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APPLICATION N	О.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/072,739		02/08/2002	Douglas H. Werner	19264.0007U2	2986	
23859	7590	12/29/2005		EXAM	EXAMINER	
NEEDLI	E & ROS	ENBERG, P.C.	HO,	HO, TAN		
SUITE 10 999 PEAC		STREET	ART UNIT	PAPER NUMBER		
ATLANT	A, GA	30309-3915	2821			
				DATE MAILED: 12/29/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

			H·A			
•	Application No.	Applicant(s)	7,37			
	10/072,739	WERNER ET AL.				
Office Action Summary	Examiner	Art Unit				
	Tan Ho	2821				
The MAILING DATE of this communication	appears on the cover sheet	with the correspondence add	dress			
Period for Reply						
A SHORTENED STATUTORY PERIOD FOR RE WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFF after SIX (6) MONTHS from the mailing date of this communication If NO period for reply is specified above, the maximum statutory per - Failure to reply within the set or extended period for reply will, by state Any reply received by the Office later than three months after the meanned patent term adjustment. See 37 CFR 1.704(b).	B DATE OF THIS COMMUN R 1.136(a). In no event, however, may riod will apply and will expire SIX (6) Matute, cause the application to become	NICATION. a reply be timely filed ONTHS from the mailing date of this co ABANDONED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on						
	Fhis action is non-final.					
,		atters, prosecution as to the	merits is			
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4)⊠ Claim(s) <u>1-60</u> is/are pending in the applicat	ion					
4a) Of the above claim(s) is/are without						
5)⊠ Claim(s) <u>39-60</u> is/are allowed.						
6)⊠ Claim(s) <u>1-6,8-10,20-25 and 27</u> is/are rejec	ted:					
7) Claim(s) 7,11-19,26 and 30-38 is/are object						
8) Claim(s) are subject to restriction an						
Application Papers						
<u> </u>	inar					
9) The specification is objected to by the Examiner. 10) The drawing(s) filed on 15, tuly 2003 is/arc; a) Mascented or b) objected to by the Examiner.						
0) ☐ The drawing(s) filed on 15 July 2002 is/are: a) ☐ accepted or b) ☐ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the cor			ED 1 121/d\			
11) The oath or declaration is objected to by the						
The dain of declaration is objected to by the	; Lammer. Note the attach	led Office Action of Torm 1.1	0-102.			
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for fore	ign priority under 35 U.S.C	. § 119(a)-(d) or (f).				
a) ☐ All b) ☐ Some * c) ☐ None of:						
 Certified copies of the priority docum 	ents have been received.					
Certified copies of the priority docum	ents have been received in	Application No				
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bur	eau (PCT Rule 17.2(a)).					
* See the attached detailed Office action for a	list of the certified copies no	ot received.	T 11			
			Edme			
			TAN HO ARY EXAMINER			
Attachment(s)		• • • • • • • • • • • • • • • • • • • •	•			
1) Notice of References Cited (PTO-892)		w Summary (PTO-413)				
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB. 		lo(s)/Mail Date of Informal Patent Application (PTC)-152)			
Paper No(s)/Mail Date <u>8/02</u> : 1/03; 5/03; 10/03.	6) Other:		· · · · · · · · ·			

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DETAILED ACTION

Claim Objections

1. Claims 3, 5, 8, 11, 15-17, 19, 22, 24-27, 29, 40, 41, 51, and 52 are objected to because of the following informalities: In claims 3, 5, 7, 10, 15-17, 19, 22, 24-26, 29, 40, 41, 51, and 52 "a genetic algorithm" should be change to --the genetic algorithm--- if it is the genetic algorithm defined in claims 1, 20, 39, and 50. In claims 8, 11, and 27 "a simple antenna" should be change to --the simple antenna--- if it is the simple antenna defined in claims 1, 20. Appropriate correction is required.

Claim Rejections - 35 USC § 112

2. Claims 6, 7, 25 and 26 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In claims 6, 7, 25, and 26, the recitation "further comprising applying a genetic algorithm" is not clear because the step applying genetic algorithm is already defined in the independent claims 1 and 20.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 4. Claims 1-6, 8-10, 16, 20-25, 27-29 are rejected under 35 U.S.C. 102(b) as being anticipated by Altshuler et al (US 5,719,794).

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Altshuler et al disclose a process for the design of antennas using genetic algorithms comprising the steps of specifying the electromagnetic properties of the desired antenna, selecting a genetic algorithm, and the genetic algorithm proceeding to obtain an optimized design for an antenna, see figures 1 and 2, the abstract, and column 2, line 40 through column 3, line 41.

Allowable Subject Matter

- 5. Claims 7, 11-15, 17-19, 31-38 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 6. Claims 39-60 are allowed.

Claims 39 and 50 recite method and system for creating a pattern of electromagnetic materials on a substrate or superstrate for forming at least one frequency selective surface. The patent to Altshuler et al fails to teach the frequency selective surface formed on a substrate.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tan Ho whose telephone number is (571) 272-1822. The examiner can normally be reached on M-F (8:00AM - 5:00PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Don Wong can be reached on (571) 272-1834. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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TAN HO
PRIMARY EXAMINER